CURRENT THINK ALOUD PRACTICES

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What is Think Aloud?

Saying thoughts aloud while performing a specific task

Psychology and Verbal Report

- Are verbal reports valid?
- Verbal Reports as Data, 1980 –K. Anders Ericsson and Herbert A.Simon

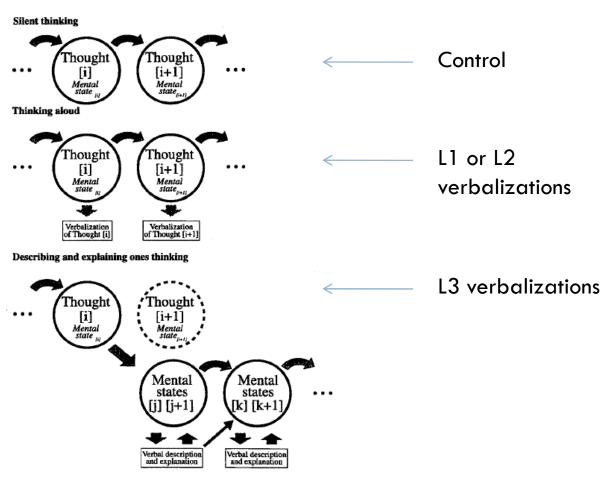
Think Aloud Protocol

- Recall what Think Aloud is Saying thoughts aloud while performing a specific task
- Most important focusing a specific task
- Practice exercises mental multiplication

Types of Verbalizations

- Level 1 (L1): 'Direct articulation of information stored in a language (verbal) code'
- Level 2 (L2): 'Articulation of verbal recoding of nonpropositional information without additional processing'
- Level 3 (L3): 'Articulation after scanning, filtering, inference or generative processes have modified the information available'

Thought Processes



From: Ericsson, K. A., & Simon, H. A. (1998). How to Study Thinking in Everyday Life: Contrasting Think-Aloud Protocols With Descriptions and Explanations of Thinking. *Mind*, Culture and Activity, 5 (3), 180.

L3 Verbalization Examples

- People are instructed to talk about a specific type of information
 - Verbal descriptions of motor activities
- People are asked to talk about things they would usually not verbalize or attend to
 - Reasons for behaviour may not be available
 - Hypothetical questions

Explanations of Behaviour

Telling More Than We Can Know – Nisbett & Wilson 1977

- People may not be able to explain 'why'
- Answers are based on a priori causal theories
- Correct answers are due to correct employment of a priori casual theories

Usability

- Do practitioners know the implications of using Think Aloud during a usability test?
- Is there a standard Think Aloud method for usability?
- Why is Think Aloud used in usability studies?

Clayton Lewis, IBM

- Using Think Aloud to guide modifications in interface design
- Suggest categories for people to focus on
- Use user comments to infer why a problem occurs

Standard method?

Is there a standard Think Aloud method that you use?

Usability without Think Aloud

How would the usability world be different if Think Aloud was not used?

- Less information to convince people to make design changes
- Difficult to provide recommendations
- More surprises

What information do you seek?

What information are you looking for when you ask people to Think Aloud?

- Thinking / Thought Processes
- Descriptions of Behaviour
- Feelings
- Reasons or Explanations
- Expectations

Prompting

When and why do you prompt participants?

- □ To focus on something they missed
- I have questions planned for specific parts of the interface

User gets stuck, what do you do?

What do you do when a user gets stuck? What if its a building task?

Useful information

How do you know if Think Aloud is producing useful information?

- Insights into making product better
- Proves an assumption
- Related to the goal of the study

Think Aloud in study reports

How does Think Aloud tie in with study reports?

- 90% of people interviewed frequently use quotes in reports
- Quotes are used at a tool to convince people
 - More effective than what moderator says
 - Push stakeholders to make a change
 - Clients need to convince people for money to implement something

Guidelines

- Don't betray your views of the participant's level of skill
- Don't expect the user to tell you how to fix problems
- Don't get impatient!
- Probe in a neutral way
- Don't flirt

Questions?